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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,229

DATE: 09/24/2001

TIME: 15:35:31

Input Set : A:\20193P SeqList.txt
 Output Set: N:\CRF3\09242001\I701229.raw

4 <110> APPLICANT: El-Sherbeini, Mohammed
 5 Azzolina, Barbara
 7 <120> TITLE OF INVENTION: MURD PROTEIN AND GENE OF PSEUDOMONAS
 8 AERUGINOSA
 10 <130> FILE REFERENCE: 20193P
 12 <140> CURRENT APPLICATION NUMBER: 09/701,229
 13 <141> CURRENT FILING DATE: 2000-11-28
 15 <150> PRIOR APPLICATION NUMBER: 60/087,308
 16 <151> PRIOR FILING DATE: 1999-05-26
 18 <150> PRIOR APPLICATION NUMBER: PCT/US99/11585
 19 <151> PRIOR FILING DATE: 1998-05-29
 21 <160> NUMBER OF SEQ ID NOS: 4
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 1450
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Pseudomonas aeruginosa
 30 <400> SEQUENCE: 1
 31 cgtgctgatc ggccctcgca ccttgaagct gcgttgagga cgaagagagc atgaggctga 60
 32 tcgcctccga ccacttccgc atcggtgtcg gcctcgcaaa gagcggcatg tccctgggtgc 120
 33 gctacctggc ggcgcgcggc ttgccttcg ccgtggtcga tacccgagag aaccggccgg 180
 34 agctggccac cctgcgtgcc cagtatccgc aggtgaaagt gcgttgccgc gaactcgacg 240
 35 ccgagttcct ctgctccgcc cgcaactct atgtcagccc cggcttgcgc ctgcgcaccc 300
 36 ctgcgctggc acaggccgccc gcaaaggcg tgccatctc cggtgacatc gatctttcg 360
 37 cccgcgaggc gaaggccccg atcgctgcca tcaccgggtca caacgcgaag agcaccgtga 420
 38 ccaccctggc gggcggaaatg ggggtggccg cggacaagcg tgcgtccgtc ggcggcaacc 480
 39 tcggcacccccc ggcgctcgac ctgctggccg acgacatcga gctgtacgtt ttggagctgt 540
 40 cgagcttcca gctggaaacc tgcgatcgcc tcaacccgaa ggtggcgacc gtgctgaacg 600
 41 tcagcgaaga ccatatggat cgctacgacg gcatggctga ctaccacctg gccaagcacc 660
 42 ggatcttccg cgggtccgc cagggtgtgg tgaatcgccgc cgatgcctg acccgaccgc 720
 43 tgatecgccga taccgtggccg tgcgtggctgt tcggcctgaa caagccggac ttcaaggctt 780
 44 tcggcctgat cgaggaagac ggcagaaggt ggctggcggtt ccagttcgac aagctgtgc 840
 45 cgggtggcga actgaagatc cgtggcgccc acaactattc caacgcgcgc ggcgcgttgg 900
 46 cgctgggcca tgcggcggc ctgcgttgc acgcccattgc cggcgccgt aaggcggtttt 960
 47 ccggcctggc tcatacgatc cagtgggtac gcgagccgc gggcgtgagc tactacgacg 1020
 48 attccaaggc caccaacgtc ggcgcgcgc tggcggcgat cgaggggctg ggtggccaca 1080
 49 tcgacggcaa gctgggtctg ctcgcggcg gagacggcaa gggcgccgt ttccatgacc 1140
 50 tgcgcgagcc ggtcgccgc ttctggccgg cgggtgtact gcttggccgt gacggccggc 1200
 51 tgattgcca ggcactggc aacgcggatc cgctggtcg cgtcgcaacg ctggacgaag 1260
 52 cagtccggca ggcgcgcgag ctggccggcg aaggcgatgc ggtgctgttgc tgcggccct 1320
 53 ggcgcgagcc ggcacatgttc aagaacttcg aagaacgcgg acgcctgttc gccaaagccg 1380
 54 tagaggagct agcgtgatgc tgcgtgttgc ggcgcgcgc tgcgtgcgc tgcgtgcgc 1440
 55 gcacggcatc 1450
 57 <210> SEQ ID NO: 2
 58 <211> LENGTH: 448
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Pseudomonas aeruginosa

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62 <400> SEQUENCE: 2
63 Met Ser Leu Ile Ala Ser Asp His Phe Arg Ile Val Val Gly Leu Gly
64 1 5 10 15
65 Lys Ser Gly Met Ser Leu Val Arg Tyr Leu Ala Arg Arg Gly Leu Pro
66 20 25 30
67 Phe Ala Val Val Asp Thr Arg Glu Asn Pro Pro Glu Leu Ala Thr Leu
68 35 40 45
69 Arg Ala Gln Tyr Pro Gln Val Glu Val Arg Cys Gly Glu Leu Asp Ala
70 50 55 60
71 Glu Phe Leu Cys Ser Ala Arg Glu Leu Tyr Val Ser Pro Gly Leu Ser
72 65 70 75 80
73 Leu Arg Thr Pro Ala Leu Val Gln Ala Ala Ala Lys Gly Val Arg Ile
74 85 90 95
75 Ser Gly Asp Ile Asp Leu Phe Ala Arg Glu Ala Lys Ala Pro Ile Val
76 100 105 110
77 Ala Ile Thr Gly Ser Asn Ala Lys Ser Thr Val Thr Thr Leu Val Gly
78 115 120 125
79 Glu Met Ala Val Ala Ala Asp Lys Arg Val Ala Val Gly Gly Asn Leu
80 130 135 140
81 Gly Thr Pro Ala Leu Asp Leu Leu Ala Asp Asp Ile Glu Leu Tyr Val
82 145 150 155 160
83 Leu Glu Leu Ser Ser Phe Gln Leu Glu Thr Cys Asp Arg Leu Asn Ala
84 165 170 175
85 Glu Val Ala Thr Val Leu Asn Val Ser Glu Asp His Met Asp Arg Tyr
86 180 185 190
87 Asp Gly Met Ala Asp Tyr His Leu Ala Lys His Arg Ile Phe Arg Gly
88 195 200 205
89 Ala Arg Gln Val Val Val Asn Arg Ala Asp Ala Leu Thr Arg Pro Leu
90 210 215 220
91 Ile Ala Asp Thr Val Pro Cys Trp Ser Phe Gly Leu Asn Lys Pro Asp
92 225 230 235 240
93 Phe Lys Ala Phe Gly Leu Ile Glu Glu Asp Gly Gln Lys Trp Leu Ala
94 245 250 255
95 Phe Gln Phe Asp Lys Leu Leu Pro Val Gly Glu Leu Lys Ile Arg Gly
96 260 265 270
97 Ala His Asn Tyr Ser Asn Ala Leu Ala Ala Leu Ala Leu Gly His Ala
98 275 280 285
99 Val Gly Leu Pro Phe Asp Ala Met Leu Gly Ala Leu Lys Ala Phe Ser
100 290 295 300
101 Gly Leu Ala His Arg Cys Gln Trp Val Arg Glu Arg Gln Gly Val Ser
102 305 310 315 320
103 Tyr Tyr Asp Asp Ser Lys Ala Thr Asn Val Gly Ala Ala Leu Ala Ala
104 325 330 335
105 Ile Glu Gly Leu Gly Ala Asp Ile Asp Gly Lys Leu Val Leu Leu Ala
106 340 345 350
107 Gly Gly Asp Gly Lys Gly Ala Asp Phe His Asp Leu Arg Glu Pro Val
108 355 360 365
109 Ala Arg Phe Cys Arg Ala Val Val Leu Leu Gly Arg Asp Ala Gly Leu
110 370 375 380

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111 Ile Ala Gln Ala Leu Gly Asn Ala Val Pro Leu Val Arg Val Ala Thr
112 385 390 395 400
113 Leu Asp Glu Ala Val Arg Gln Ala Ala Glu Leu Ala Arg Glu Gly Asp
114 405 410 415
115 Ala Val Leu Leu Ser Pro Ala Cys Ala Ser Leu Asp Met Phe Lys Asn
116 420 425 430
117 Phe Glu Glu Arg Gly Arg Leu Phe Ala Lys Ala Val Glu Glu Leu Ala
118 435 440 445
120 <210> SEQ ID NO: 3
121 <211> LENGTH: 25
122 <212> TYPE: DNA
123 <213> ORGANISM: Pseudomonas aeruginosa
125 <400> SEQUENCE: 3
126 ttctcgagat gagcctgatc gcctc 25
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 26
130 <212> TYPE: DNA
131 <213> ORGANISM: Pseudomonas aeruginosa
133 <400> SEQUENCE: 4
134 ttggatcctc acgctagctc ctctac 26

VERIFICATION SUMMARY

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